

Contents

Marine Geology Volume 103, 1992

Research Papers

Methane-derived carbonate cementation of marine sedimentation from the Kattegat, Denmark: Geochemical and geological evidence N.O. Jørgensen (Copenhagen, Denmark)	1
Glacial geology of outer Bjørnøyrænna, southwestern Barents Sea J. Saettem (Trondheim, Norway), D.A.R. Poole (Tromsø, Norway) and L. Ellingsen and H.P. Sejrup (Bergen, Norway) ..	15
Seismic architecture and sedimentation in northwest Spitsbergen fjords D.J. Sexton and J.A. Dowdeswell (Cambridge, U.K.), A. Solheim (Oslo Lufthavn, Norway) and A. Elverhøi (Oslo, Norway)	53
Developing sediment geochronologies for high-latitude continental shelf deposits: a radiochemical approach S.L. Harden and D.J. DeMaster (Raleigh, N.C., U.S.A.) and C.A. Nittrouer (Stony Brook, N.Y., U.S.A.).....	69
Paleocene and Eocene kaolinite distribution in the South Atlantic and Southern Ocean: Antarctic climatic and paleoceanographic implications C. Robert (Marseille, France) and J.P. Kennett (Santa Barbara, Calif., U.S.A.)	99
Thermoluminescence properties of a deglacial marine sequence from Cumberland Sound, Arctic Canada: sedimentologic and geochronologic implications A.E. Jennings and S.L. Forman (Boulder, Colo., U.S.A.)	111
Highstand versus lowstand deposition on carbonate platform margins: insight from Quaternary foreslopes in the Bahamas G.M. Grammer and R.N. Ginsburg (Miami, Fla., U.S.A.)	125
Paleogene-Neogene depositional history of the middle U.S. Atlantic continental rise: mixed turbidite and contourite depositional systems S.D. Locker and E.P. Laine (Kingston, R.I., U.S.A.)	137
Holocene depocenter migration and sediment accumulation in Delaware Bay: a submerging marginal marine sedimentary basin C.H. Fletcher III (Honolulu, Hawaii, U.S.A.), H.J. Knebel (Woods Hole, Mass., U.S.A.) and J.C. Kraft (Newark, Del., U.S.A.).....	165
Mineralogy of the silt fraction in surficial sediments from the United States mid-Atlantic shelf, slope and rise L.J. Poppe and J.A. Commeau (Woods Hole, Mass., U.S.A.)	185
Recent terrigenous sedimentation in Joseph Bonaparte Gulf, Northwestern Australia B.G. Lees (Canberra, A.C.T., Australia).....	199
The development of a chenier sequence on the Victoria Delta, Joseph Bonaparte Gulf, northern Australia B.G. Lees (Canberra, A.C.T., Australia).....	215
Evolution of subtidal sandbanks in Moreton Bay, eastern Australia P.T. Harris (Sydney, N.S.W., Australia), C.B. Pattiaratchi (Nedlands, W.A., Australia) and A.R. Cole and J.B. Keene (Sydney, N.S.W., Australia)	225
Carbonate minerals, major and minor elements and oxygen and carbon isotopes and their variation with water depth in cool, temperate carbonates, western Tasmania, Australia C.P. Rao and M.H. Adabi (Hobart, Tasmania, Australia)	249
Oxygen and carbon isotope fields for temperate shelf carbonates from Tasmania and New Zealand C.P. Rao (Hobart, Tasmania, Australia) and C.S. Nelson (Hamilton, New Zealand)	273
Shallow structure and active tectonism of an offshore continental back-arc spreading system: the Taupo Volcanic Zone, New Zealand I.C. Wright (Wellington, New Zealand).....	287
SeaMARC II evidence for the locus of seafloor spreading in the southern Mariana Trough R.A. Hagen, A.N. Shor and P. Fryer (Honolulu, Hawaii, U.S.A.)	311
Initiation of ophiolite emplacement: a modern example from Okushiri Ridge, Northeast Japan Arc H. Tokuyama and S. Kuramoto (Tokyo, Japan), W. Soh (Oya, Japan), S. Miyashita (Niigata, Japan), T. Byrne (Storrs, Conn., U.S.A.) and T. Tanaka (Yokosuka, Japan).....	323
The bathymetry and distribution of the Bahia Seamounts, Brazil Basin N.Z. Cherkis and D.A. Chayes (Washington, D.C., U.S.A.) and L.C. Costa (Rio de Janeiro, Brazil).....	335
Nd isotopes in Indian Ocean sediments used as a tracer of supply to the ocean and circulation paths A. Dia, B. Dupré and C.J. Allègre (Paris, France).....	349
Geochemistry of polymetallic nodules from the Central Indian Ocean Basin A.B. Valsangkar, N.H. Khadge and J.A. Erwin Desa (Goa, India).....	361

First in situ studies of nodule distribution and geotechnical measurements of associated deep-sea clay (Northeastern Pacific Ocean)	
P. Cochonat and R.L. Suavé (Plouzané, France), C. Charles (La Seyne, France), B. Greger (Hannover, Germany), M. Hoffert (Strasbourg, France), J.P. Lenoble (Issy-les-Moulineaux, France) and J. Meunier and G. Pautot (Plouzané, France)	373
Local variations in distribution and composition of ferromanganese nodules in the Clarion-Clipperton Nodule Province	
N.S. Skorniyakova and I.O. Murdmaa (Moscow, U.S.S.R.)	381
Episodic preservation of pteropod oozes in the deep Northeast Atlantic Ocean: Climatic change and hydrothermal activity	
M.J. Melkert and G. Ganssen (Amsterdam, The Netherlands), W. Helder (Den Burg, The Netherlands) and S.R. Troelstra (Amsterdam, The Netherlands)	407
Holocene evolution of the coast of Holland	
D.J. Beets (Haarlem, The Netherlands), L. van der Valk (Amsterdam, The Netherlands) and M.J.F. Stive (Emmeloord, The Netherlands)	423
Bulk properties of intertidal sediments in a muddy, macrotidal estuary	
J.A. Stephens and R.J. Uncles (Plymouth, U.K.), M.L. Barton (Plymouth and Birmingham, U.K.) and F. Fitzpatrick (Plymouth, U.K.)	445
Organic carbon accumulation in Bannock Basin: Evaluating the role of productivity in the formation of eastern Mediterranean sapropels	
M.W. Howell (Dallas, Tex., U.S.A.) and R.C. Thunell (Columbia, S.C., U.S.A.)	461
Sedimentation of riverborne material in a shallow shelf sea: Adige River, Adriatic Sea	
A. Boldrin (Venice, Italy), M. Juračić (Zagreb, Yugoslavia) and L. Menegazzo Vitturi, S. Rabitti and G. Rampazzo (Venice, Italy)	473
Sediments and sedimentary processes in Mutsu Bay, Japan: Pelletization as the most important mode in depositing argillaceous sediments	
K. Minoura (Sendai, Japan) and Y. Osaka (Hiranai, Japan)	487
Sedimentation in the southern inland seas of the arid zone of the USSR	
Yu. P. Khrustalyov and Yu. V. Artiukhin (Rostov-on-Don, U.S.S.R.)	503
A fiber optic sensor for monitoring suspended sediment	
R.A. Beach (Corvallis, Oreg., U.S.A.) and R.W. Sternberg and R. Johnson (Seattle, Wash., U.S.A.)	513
Letter Section	
First results of study of sulphur-rich hydrothermal activity from an island-arc environment: Esmeralda Bank in the Mariana Arc	
D. Stüben (Kiel, Germany), S.H. Bloomer (Boston, Mass., U.S.A.), N.E. Taïbi and Th. Neumann (Kiel, Germany), V. Bendel (Brest, France), U. Püschel (Kiel, Germany), A. Barone (La Jolla, Calif., U.S.A.), A. Lange (Langenhagen, Germany), Wu Shiyang (Qingdao, People's Republic of China), Li Cuizhong (Hangzhou, People's Republic of China) and Zhang Deyu (Qingdao, People's Republic of China)	521
Book Reviews	
<i>Evaporite Sedimentology. Importance in Hydrocarbon Accumulation</i> , by J.K. Warren — F. Ricci Lucchi	529
<i>Deep Marine Environments: Clastic Sedimentation and Tectonics</i> , by K.T. Pickering, R.N. Hiscott and F.J. Hein — D.A.V. Stow	530
<i>Coasts</i> , by J.D. Hansom — T. Saville, Jr.	530
<i>The Potential of Deep Seismic Profiling for Hydrocarbon Exploration</i> , by B. Pinet and C. Bois (Editors) — A. Hurst	531
<i>Diagenesis</i> , by I.A. McIlreath and D.W. Morrow (Editors) — V.P. Wright	532
<i>Argillaceous Rock Atlas</i> , by N.R. O'Brien and R.M. Slatt — D. Krinsley	533
<i>Ocean Circulation</i> , by the Open University Course Team — D.B. Olson	534
<i>Tracers in the Oceans</i> , by H. Charnock, J.E. Lovelock, P.S. Liss and M. Whitfield (Editors) — A. Walton	535
<i>Productivity of the Ocean: Present and Past</i> , by W.H. Berger, V.S. Smetacek and G. Wefer (Editors) — D. Eisma	536
<i>Aquatic Chemical Kinetics. Reaction Rates of Processes in Natural Waters</i> , by W. Stumm (Editor) — J.N. Butler	536
<i>Triassic-Jurassic Rifting. Continental Breakup and the Origin of the Atlantic Ocean and Passive Margins. Parts A and B</i> , by W. Manspeizer (Editor) — D.V. Ager	538
<i>Minerals and Mineraloids in Marine Sediments. An Optical Identification Guide</i> , by R.G. Rothwell — G.P. Glasby	539
Erratum	541
Contents Volume 103 No. 1/3	543
1991 Year-End Index, Volumes 96-101	545
Author Index, Volumes 51-100	567
Guide for Authors	

